

12/26/102

ON - LINE TEXT VALIDATION

PAGE 1

15:36:15

E R R O R R E P O R T

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GROUP: T7

PAGE NO: 14	LINE NO: 292	WARNING => TYPEFACE COMMAND [+l/+b/+i] FOLLOWED BY A (+i)
PAGE NO: 14	LINE NO: 296	WARNING => TYPEFACE COMMAND [+l/+b/+i] FOLLOWED BY A (+i)
PAGE NO: 15	LINE NO: 305	WARNING => TYPEFACE COMMAND [+l/+b/+i] FOLLOWED BY A (+i)
PAGE NO: 15	LINE NO: 322	WARNING => TYPEFACE COMMAND [+l/+b/+i] FOLLOWED BY A (+i)
PAGE NO: 17	LINE NO: 366	WARNING => TYPEFACE COMMAND [+l/+b/+i] FOLLOWED BY A (+i)
PAGE NO: 23	LINE NO: 510	WARNING => TYPEFACE COMMAND [+l/+b/+i] FOLLOWED BY A (+i)

TEXT VALIDATION

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D A C S - E R R O R R E P O R T

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INFO, NO DACS VALIDATION ERRORS HAVE BEEN FOUND...

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--* NEW PATENT *-*-*

Group T7

PATENT # 56963960.001

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0001 +pg,1

0002 +sa

0003 A rolling containers assembly including (a) a base cabinet including
0004 wheels and a pulling handle for locomoting the rolling containers <<<<
>>>>assembly;

0005 and (b) at least one additional cabinet being removably connectable <<<<
>>>>on top

0006 of the base cabinet.

0007 +ea *ins* +Pg,2 Δ

0008 +sp +p This application is a continuation of U.S. application Ser. <<<<
>>>>No. ^b 09/731,780, ^l filed

0009 Dec. ^b 8, 2000, ^l now U.S. Pat. No. ^b 6,347,847, ^l which is a <<<<
>>>>continuation of U.S.

0010 application Ser. No. ^b 09/433,352, ^l filed Nov. ^b 4, 1999, ^l now <<<<
>>>>U.S. Pat. No.

0011 ^b 6,176,559, ^l which is a continuation of U.S. application Ser. No. <<<<
>>>>^b 09/017,197, ^l filed Feb.

0012 ^b 2, 1998, ^l now abandoned.

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0013 +pg. 2

0014 +SU +CL FIELD AND BACKGROUND OF THE INVENTION

0015 +P The present invention relates to a rolling containers assembly and,
0016 more particularly, to a vertically deployed modular rolling workshop <<<<
>>>>having

0017 a retractable/extendible handle, which is easily assembled/disassembled.

0018 +P Working in situ requires a plurality of working tools to be brought to
0019 the working location.

0020 +P Conventional tool boxes are typically used for that purpose,

0021 however, their locomotion as individual pieces is inconvenient.

0022 +P There is thus a widely recognized need for, and it would be highly
0023 advantageous to have, a modular rolling workshop devoid of the above
0024 limitation.

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0025 +pg, 3

0026 +P Additional advantages of the modular rolling workshop according to
0027 the present invention are described with respect to its specific <<<<
>>>>embodiments

0028 hereinbelow.

0029 +CL SUMMARY OF THE INVENTION

0030 +P According to the present invention there is provided a rolling
0031 containers assembly for storing working tools.

0032 +P According to further features in preferred embodiments of the
0033 invention described below, the rolling containers assembly comprising <<<<
>>>>(a) a

0034 base cabinet including wheels and a pulling handle for locomoting the
0035 rolling containers assembly; and (b) at least one additional cabinet <<<<
>>>>being

0036 removably connectable on top of the base cabinet.

0037 +P According to still further features in the described preferred
0038 embodiments the handle is extendible.

0039 +P According to still further features in the described preferred
0040 embodiments the at least one additional cabinet is selected from the <<<<
>>>>group

0041 consisting of a drawers assembly and a toolcase.

0042 +P According to still further features in the described preferred
0043 embodiments the base cabinet includes a reel.

0044 +P According to still further features in the described preferred
0045 embodiments the at least one additional cabinet is a modular unit.

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0046 +pg.4

0047 +P According to still further features in the described preferred
0048 embodiments the at least one additional cabinet snaps onto the base <<<<
>>>>cabinet.

0049 +P According to still further features in the described preferred
0050 embodiments the toolcase includes a case and an openable cover.

0051 +P According to still further features in the described preferred
0052 embodiments the cover is formed with an external groove usable in
0053 supporting rectangular and round objects.

0054 +P According to still further features in the described preferred
0055 embodiments the groove is asymmetrical in cross section.

0056 +P According to still further features in the described preferred
0057 embodiments the groove is formed between a first wall and a second <<<<
>>>>wall of

0058 the cover deployed in a V shape, the first wall is deployed +b 63+35 <<<<
>>>>15 +l degrees

0059 with respect to the cover, the second wall is deployed +b 27+35 15 +l <<<<
>>>>degrees with

0060 respect to the cover, whereas the first and second walls are deployed <<<<
>>>>+b 90

0061 +l degrees with respect to one another.

0062 +P According to still further features in the described preferred
0063 embodiments the groove is formed with grip ribs on at least a section
0064 thereof.

0065 +P According to still further features in the described preferred
0066 embodiments the cover is formed with underlying strengthening ribs.
0067 +P According to still further features in the described preferred
0068 embodiments the underlying strengthening ribs are deployed crosswise with

0069 +pg,5

0070 respect to one another and obliquely with respect to an edge of the <<<<
>>>>cover,

0071 such that triangle shapes are formed along the edge.

0072 +P According to still further features in the described preferred

0073 embodiments the underlying strengthening ribs are deployed +b 90 +l <<<<
>>>>degrees

0074 crosswise with respect to one another and +b 45 +l degrees with <<<<
>>>>respect to an

0075 edge of the cover.

0076 +P According to still further features in the described preferred

0077 embodiments the cover is formed with external protrusions deployed above
0078 the underlying strengthening ribs, the external protrusions serve for <<<<
>>>>at least

0079 partially disguising sink marks associated with the ribs.

0080 +P According to still further features in the described preferred

0081 embodiments the external protrusions have a diamond shape.

0082 +P According to still further features in the described preferred

0083 embodiments the cover includes a carrying handle.

0084 +P According to still further features in the described preferred

0085 embodiments the carrying handle is foldable.

0086 +P According to still further features in the described preferred

0087 embodiments the toolcase includes at least one latch for securing the <<<<
>>>>cover

0088 to the case when closed.

0089 +P According to still further features in the described preferred

0090 embodiments the toolcase includes front sides and back, the sides taper
0091 toward the back.

0092 +pg, 6

0093 +P According to still further features in the described preferred
0094 embodiments the front is curved.

0095 +P According to still further features in the described preferred
0096 embodiments the toolcase includes a tray deployable within the case.

0097 +P According to still further features in the described preferred
0098 embodiments the tray includes a tray-handle.

0099 +P According to still further features in the described preferred

0100 embodiments toolcase includes a foldable carrying handle having side <<<<
>>>>arms,

0101 the tray includes a tray-handle, the tray-handle nests between the <<<<
>>>>side arms

0102 of the carrying handle of the cover.

0103 +P According to still further features in the described preferred

0104 embodiments the drawers assembly includes a casing and at least one
0105 translating drawer translatably engaged by the casing.

0106 +P According to still further features in the described preferred

0107 embodiments the at least one drawer translates over rails connected <<<<

>>>>to the

0108 casing.

0109 +P According to still further features in the described preferred

0110 embodiments all of the at least one drawer are securable close via a <<<<

>>>>single

0111 securing member.

0112 +P According to still further features in the described preferred

0113 embodiments the handle is extendible, the single securing member is

0114 attached to the handle, such that when the handle is retracted the <<<<

>>>>securing

0115 member secured all of the at least one drawer closed.

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0116 +pg 7

0117 +P According to still further features in the described preferred
0118 embodiments the base cabinet includes a casing to which the handle <<<<
>>>>and the

0119 wheels are engaged and a flipping bin.

0120 +P According to still further features in the described preferred
0121 embodiments the flipping bin is rotatable with respect to the casing <<<<
>>>>and has

0122 an upper opening.

0123 +P According to still further features in the described preferred
0124 embodiments the casing is formed with an upper rim, the rim is
0125 supplemented with holes which serve for attaching strings for effecting
0126 carriage of desired items on the top of the base cabinet when the at <<<<
>>>>least one

0127 additional cabinet is removed.

0128 +P According to still further features in the described preferred
0129 embodiments the handle is formed with additional holes which further <<<<
>>>>serve

0130 for attaching strings for effecting the carriage of the desired items <<<<

>>>>on the top

0131 of the base cabinet when the at least one additional cabinet is removed.

0132 +P According to still further features in the described preferred
0133 embodiments the base cabinet includes a reel rotatably attached to the
0134 casing.

0135 +P According to still further features in the described preferred
0136 embodiments the reel is removable.

0137 +P According to still further features in the described preferred
0138 embodiments the casing is supplemented with at least two elastic bands
0139 designed for engaging desired items along a side thereof.

0140 +pg, 8

0141 +P According to still further features in the described preferred
0142 embodiments the flipping bin is rotatably connected to the casing via a
0143 hinge located such that the bin opens when reaches beyond a center of
0144 gravity point and closes when is before the center of gravity point.

0145 +P According to still further features in the described preferred
0146 embodiments the pulling handle is detachable.

0147 +P According to still further features in the described preferred
0148 embodiments the at least one additional cabinet is selected from the <<<<
>>>>group

0149 consisting of a clamshell style case and carousel organizer.

0150 +P According to still further features in the described preferred
0151 embodiments provided is a rolling containers assembly for storing working
0152 tools comprising (a) a base cabinet including wheels for locomoting the
0153 rolling containers assembly; and (b) at least one additional cabinet <<<<
>>>>being

0154 removably connectable on top of the base cabinet, the at least one <<<<

>>>>additional

0155 cabinet including a pulling handle for effecting the locomotion.

0156 +P According to still further features in the described preferred
0157 embodiments the at least one additional cabinet is selected from the <<<<

>>>>group

0158 consisting of a clamshell style case and carousel organizer.

0159 +P The present invention successfully addresses the shortcomings of the
0160 presently known configurations by providing a modular rolling containers
0161 assembly featuring a retractable/extendible back handle. Additional
0162 advantages of the present invention are described hereinunder.

0163 +pg, 9

0164 +dr +CL BRIEF DESCRIPTION OF THE DRAWINGS

0165 +P The invention herein described, by way of example only, with
0166 reference to the accompanying drawings, wherein:

0167 +P FIG. 1 is a perceptive front view of a rolling containers assembly
0168 according to the present invention;

0169 +P FIGS. 2 and 3 are perceptive rear views of the rolling containers
0170 assembly shown in FIG. 1;

0171 +P FIGS. 4 and 5 are perspective front views of a toolcase and a drawers
0172 assembly of the rolling containers assembly according to the present
0173 invention;

0174 +P FIG. 6 is a perspective rear view of the toolcase and drawers
0175 assembly of FIGS. 4 and 5;

0176 +P FIG. 7 is a perspective front view of a base cabinet of the rolling
0177 containers assembly according to the present invention;

0178 +P FIG. 8 is a perspective rear view of the base cabinet of FIG. 7;

0179 +P FIG. 9 is a perspective front view of the base cabinet and the drawers
0180 assembly of the rolling containers assembly according to the present
0181 invention;

0182 +P FIG. 10 is a perspective view of a reel of the rolling containers
0183 assembly according to the present invention;

0184 +P FIG. 11 is an exploded perspective view of the reel of FIG. 10;

0185 +P FIG. 12 is a front view of the rolling containers assembly according
0186 to the present invention demonstrating its modularity;

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0187 +pg,10

0188 +P FIGS. 13+i a +l and 13+i b +l are front and side views of the <<<<
>>>>toolcase of the

0189 rolling container assembly according to the present invention,
0190 demonstrating an asymmetric groove formed in its cover;

0191 +P FIGS. 14+i a +l and 14+i b +l are cross sections of two prior art <<<<
>>>>symmetric

0192 grooves formed in toolcase cover;

0193 +P FIGS. 15+i a +l and 15+i b +l are cross sections demonstrating the <<<<
>>>>ability of the

0194 asymmetric groove according to the present invention to support <<<<
>>>>rectangular

0195 and round objects, respectively;

0196 +P FIG. 16 is a top view of the cover of the toolcase of the rolling
0197 containers assembly according to the present invention;

0198 +P FIGS. 17+i a +l and 17+i b +l are comparative schematic depictions <<<<
>>>>of a prior

0199 art rib arrangement and a rib arrangement used to strengthen the cover of
0200 the toolcase according to the present invention, respectively;

0201 +P FIGS. 18+i a +l and 18+i b +l are front views of the toolcase of <<<<
>>>>the rolling

0202 containers assembly according to the present invention demonstrating the
0203 addition of a Logo pad;

0204 +P FIGS. 19+i a +l and 19+i b +l are side views of a prior art tray <<<<
>>>>arrangement and

0205 a tray arrangement of the toolcase according to the present invention,
0206 respectively;

0207 +P FIG. 20 is a side view of the tray and cover of the toolcase of the
0208 rolling containers assembly according to the present invention;

0209 +P FIGS. 21+i a+l , 21+i b +l and 21+i c +l are schematic cross <<<< the
>>>>sectional views of two
0210 prior art tray handles, and a tray handle according to the present <<<<
>>>>invention;

0211 +pg, 11

0212 +P FIGS. 22+i a +1 , 22+i b +1 and 22+i c +1 are top and side views of <<<<
 >>>>the tray handle and

0213 side view of the tray of the toolcase of the rolling containers assembly
 0214 according to the present invention;

0215 +P FIG. 23 is a side view of the drawers assembly of the rolling
 0216 containers assembly according to the present invention;

0217 +P FIG. 24 is a side view of the base cabinet of the rolling containers
 0218 assembly according to the present invention, demonstrating options to
 0219 attach strings onto the base cabinet;

0220 +P FIG. 25 is a side view of the rolling containers assembly according to
 0221 the present invention, demonstrating the attachment of a working tool
 0222 thereon via bands;

0223 +P FIGS. 26+i a +1 and 26+i b +1 are side views of a backplate of the <<<<
 >>>>reel of the

0224 rolling containers assembly according to the present invention in <<<<
 >>>>locked and

0225 unlocked positions;

0226 +P FIGS. 27, 28 and 29 are perspective views of another embodiment of
 0227 the rolling containers assembly according to the present invention;

0228 +P FIGS. 30+i a +1 and 30+i b +1 are perspective views of an <<<<

>>>>organizer of the

0229 rolling containers assembly according to its second embodiment;

0230 +P FIG. 31 is an exploded perspective view of the rolling containers
 0231 assembly according to its second embodiment.

0232 +P FIG. 32 illustrates a removable container in the form of a <<<<

>>>>clamshell style

0233 tool case.

0234 +pg, 12

0235 +de +CL DESCRIPTION OF THE PREFERRED EMBODIMENTS

0236 +P The present invention is of a rolling containers assembly which can
0237 be used as a rolling workshop. Specifically, the present invention can be
0238 used to assist workers, such as, but not limited to, construction <<<<
>>>>workers,

0239 fishermen, repairmen, etc., to carry their working tools in an organized
0240 fashion.

0241 +P The principles and operation of a rolling containers assembly
0242 according to the present invention may be better understood with <<<<
>>>>reference

0243 to the drawings and accompanying descriptions.

0244 +P Before explaining at least one embodiment of the invention in detail,
0245 it is to be understood that the invention is not limited in its <<<<
>>>>application to

0246 the details of construction and the arrangement of the components set <<<<
>>>>forth

0247 in the following description or illustrated in the drawings. The <<<<
>>>>invention is

0248 capable of other embodiments or of being practiced or carried out in <<<<
>>>>various

0249 ways. Also, it is to be understood that the phraseology and terminology
0250 employed herein is for the purpose of description and should not be
0251 regarded as limiting.

0252 +P Referring now to the drawings, FIGS. 1¹⁴ 26+i b +1 illustrate some
0253 preferred embodiments of a rolling containers assembly according to the
0254 present invention, which is referred to hereinbelow interchangeably as
0255 rolling containers assembly 50 or assembly 50.

0256 +P Thus, rolling containers assembly 50 serves for storing working tools

0257 and includes a base cabinet 52. At its lower aft end base cabinet 52 is

0258 +pg, 13

0259 supplemented with a pair of wheels 54. At its aft base cabinet 52 <<<<
>>>>includes a

0260 pulling handle 56. Wheels 54 and handle 56 serve for locomoting assembly
0261 50.

0262 +P Pulling handle 56 is shaped sized and designed to assist a user to <<<<
>>>>pull

0263 assembly 50. For example, its upper part is designed to comfortably <<<<
>>>>accept

0264 the hand of the user, and is therefore supplemented with four finger
0265 accepting recessions 51.

0266 +P Rolling containers assembly 50 further includes at least one
0267 additional cabinet 58. Additional cabinet 58 is removably connectable on
0268 top of base cabinet 52.

0269 +P As further detailed hereinbelow, according to a preferred embodiment
0270 of the invention handle 56 is extendible/retractable.

0271 +P As further detailed hereinbelow, according to another preferred
0272 embodiment of the present invention, additional cabinet(s) 58 include, <<<<
>>>> for

0273 example, a drawers assembly 60 and/or a toolcase 62.

0274 +P As further detailed hereinbelow, according to another preferred
0275 embodiment of the present invention base cabinet 52 is supplemented <<<<
>>>>with a

0276 reel 64.

0277 +P As best seen in FIG. 12 additional containers 58 are preferably
0278 designed modular, such that any combination thereof is deployable over
0279 base cabinet 52 or as a standalone configuration. Thus, for example, a
0280 plurality of drawer assemblies 62 may be snapped together as an

clude, <<<

0281 +pg,14

0282 independent drawers tower system with keyholes 63 formed in the rear for
0283 wall mounting.

0284 +P Connecting any of additional cabinet(s) 58 to base cabinet 52
0285 preferably involves snapping. To this end, base cabinet 52 and the
0286 additional cabinet(s) 58 are designed snappable to one another, and, <<<<
>>>>to this

0287 end, are supplemented with snapping mechanisms 66, which preferably also
0288 serve as side claw latches for providing extra stability.

0289 +P According to a preferred embodiment of the invention toolcase 62
0290 includes a case 68 and an openable cover 70. Cover 70 is preferably
0291 fabricated featuring an external groove 72. Groove 72 is usable in
0292 supporting rectangular 74 and/or round 76 objects (FIGS. 15+i a+1 ^14 <<<<
>>>>+1 b+1). Groove

0293 72 is preferably asymmetrical in cross section. Preferably, groove 72 is
0294 formed as a recess residing between a first wall 78 and a second wall <<<<
>>>>80 of

0295 cover 70. Walls 78 and 80 are deployed in a V shape.

0296 +P As best seen in FIGS. 15+i a+1 ^14 +i b+1 , first wall 78 is <<<<
>>>>deployed +b 63+35 15

0297 +1 degrees with respect to cover 70, second wall 80 is deployed +b <<<<

0298 >>>>27+35 15 +1 degrees

0299 with respect to cover 70, whereas first 78 and second 80 walls are <<<<

0300 >>>>deployed

0301 +b 90 +1 degrees with respect to one another.

0302 +P Groove 72 is designed to facilitate cutting desired object. Grooves
0303 are known in the art for some time and serve to facilitate cutting round
0304 objects. However, all prior art grooves, as shown in FIGS. 14+i a +1 <<<<

0305 >>>>and 14+i b+1 ,

0303

0303

0303 traditionally have symmetric cross sections.

0303

0304 +pg, 15

0305 +P As specifically shown in FIGS. 15+i a+l ^14 +i b+l , groove 72, on <<<<
>>>>the other

0306 hand, is selected asymmetrical. Groove+3 s 72 architecture is <<<<
>>>>specifically

0307 designed to allow cutting both rectangular wood and round pipe elements.

0308 To this end, the asymmetry of about +b 63/27 +l degrees is preferably <<<<
>>>>selected.

0309 This asymmetry dictates that groove+3 s 72 shortest side is more than <<<<
>>>>half

0310 shorter than groove+3 s 72 longest side, allowing a +b 2+41 +33 4+41 <<<<
>>>>+l +0 wood size to be cut

0311 in a stable manner without excess slippage.

0312 +P The +b 63/27 +l degrees feature has been experimentally shown to <<<<
>>>>be the

0313 most useful angle for this sort of work, however, it is feasible that <<<<
>>>>for other

0314 applications other asymmetric dimensions would prove more adapted.

0315 Therefore, according to the present invention groove 72 may have any

0316 asymmetrical or symmetrical design.

0317 +P As best seen in FIG. 16, groove 72 is preferably formed with grip

0318 ribs 82 on at least a section thereof Grip ribs 82 are preferably <<<<
>>>>arranged on

0319 the outer edges of groove 72. Grip ribs 82 are designed to provide <<<<
>>>>friction

0320 and thereby to minimize the vibration of the material being cut, <<<<

>>>>which tends

0321 to vibrate in concert with the saw.

0322 +P As best seen in FIGS. 16 and 17+i a+l ^14 +i b+l , cover 70 is <<<<

>>>preferably formed

0323 with underlying strengthening ribs 84. Underlying strengthening ribs <<<<

>>>>84 are

0324 preferably deployed crosswise with respect to one another and obliquely

0325 with respect to an edge 86 of cover 70, such that triangular shapes <<<<

>>>>88 are

0326 formed along edge 86.

0327 +pg, 16

0328 +P Preferably underlying strengthening ribs are deployed +b 90 +l degrees

0329 crosswise with respect to one another and +b 45 +l degrees with <<<<

>>>>respect to edge

0330 86 of cover 70.

0331 +P As best seen in FIG. 16, according to a preferred embodiment of

0332 the present invention cover 70 is formed with external protrusions 90.

0333 Protrusions 90 are deployed above, parallel to, underlying strengthening

0334 ribs 84 and serve for at least partially disguising sink marks <<<<

>>>>associated with

0335 ribs 84. External protrusions 84 are preferably acquired a diamond shape

0336 (+567).

0337 +P It has been recent practice to heavily rib the underside of plastic

0338 toolcase covers to withstand the weight of the average person, who <<<<

>>>>typically

0339 will use them as defacto step tools. The +37 sink marks+38 +0 that <<<<

>>>>show on the top

0340 surface of such covers is noticeable and disguised typically with <<<<

>>>>some sort

0341 of decoration running in the same direction of the ribbing.

0342 +P FIG. 16 shows a section of ribs 84 arrangement on the top left end

0343 of cover 70. This ribbing preferably runs the entire underside of <<<<

>>>>cover 70.

0344 As already mentioned hereinabove ribbing 84 is preferably deployed at <<<<

>>>>+b 45

0345 +l degrees orientation with respect to the edge of the cover. Thereby <<<<

>>>>ribs 84

0346 terminate in triangles 88 (FIG. 17+i b+l). The triangular terminatio<<<<

>>>>n around

0347 the relatively more sensitive perimeter of the cover is measurably <<<<
>>>>stronger

0348 than traditional rectangular ribbing (FIG. 17+i a+1).

0349 +P The preferred embodiment is aesthetically enabled by the chosen

0350 diamond pattern that overlays the ribs on the top side of the case (FIG.

0351 +pg;17

0352 16). Although such diamond patterns are a common anti-slippage icon in
 0353 the hardware steel industry, this is the first time to have them <<<<
 >>>>introduced

0354 into the plastic industry to serve as anti-slippage elements and at <<<<
 >>>>the same

0355 time for disguising rib sinkage marks.

0356 +P According to another preferred embodiment of the present invention
 0357 cover 70 includes a carrying handle 92. Carrying handle 92 is preferably
 0358 foldable into a recession 94 formed in cover 70 which is sized and
 0359 dimensioned for receiving handle 92 when folded.

0360 +P According to another preferred embodiment of the present invention
 0361 toolcase 62 includes at least one latch 96 (two are shown) for
 0362 securing/locking cover 70 to case 68 when closed. Cover 70 is hingedly
 0363 connected to case 68 via a hinge 98. Preferably, as best seen in FIG. 16,
 0364 toolcase 62 includes a front 100, sides 102 and back 104, wherein <<<<
 >>>>sides 102

0365 taper toward back 104. Front 100 is preferably curved.

0366 +P As shown in FIGS. 18+1 a+1 ^14 +1 b+1 , according to a preferred <<<<
 >>>>embodiment of

0367 the present invention a Logo plate 106 is added between latches 96. Plate
 0368 106 is preferably a separate molded panel which is molded at +b 90 +1 <<<<
 >>>>degrees to

0369 the rest of the case, however it appears to be an integral part of <<<<
 >>>>the case

0370 when assembled, rather than a separate item.

0371 +P According to another preferred embodiment of the present invention,
 0372 and as specifically shown in FIGS. 19^14 22, toolcase 62 preferably <<<<

>>>>includes

0373 a removable tray 108, deployable within case 68. Tray 108 preferably
0374 includes a tray-handle 110. Preferably, as best seen in FIG. 19+i b+l <<<<
>>>> tray-handle

0375 +pg, 18

0376 108 nests between side arms 110 of carrying handle 92 of cover 70.

0377 +P Thus, in sharp contrast with the conventional configuration shown in
0378 FIG. 19+i a+1 , wherein the tray handle 110+40 +0 resides below the <<<<
>>>>cover handle,

0379 thereby effectively lowering the tray in the case, according to the <<<<
>>>>present

0380 invention, the tray handle nests between the vertical arms of the cover
0381 handle, rendering the tray about +b 20+1 % higher, gaining much requested
0382 additional room in the main case.

0383 +P Furthermore, with the handle residing directly underneath the cover,
0384 it now acts as a load bearing member when a user stands on the case,
0385 transmitting a partial load through the tray onto the perimeter of <<<<
>>>>the base.

0386 One additional benefit is that ribs which are preferably deployed on the
0387 underside of the tray can be lighter and use less material.

0388 +P A common problem with plastic tray handle designs is how to
0389 produce a solid feeling handle from both sides. Typically the handle is
0390 open from the top (FIG. 21+i a+1), which functions well but is not <<<<
>>>>attractive, or

0391 the handle is open from the bottom (FIG. 21+i b+1) which looks good <<<<
>>>>but can

0392 be painful to the hand.

0393 +P According to the present invention, as specifically shown in FIGS.

0394 21+i c +1 and 22+i a+1 , an additional piece 112 is used to fill the <<<<
>>>>area of a handle open

0395 from the top by snapping piece 112 into the top opening. Thereby, both
0396 functionality and aesthetic are achieved. This solution offers both solid
0397 feeling and looks to the handle and a good surface area for hand comfort.

0398 +pg, 19

0399 +P According to a preferred embodiment of the invention drawers
0400 assembly 60 includes a casing 114 and at least one translating drawer 116
0401 (two are shown) translatably engaged by casing 114. Preferably, as shown
0402 in FIG. 23, drawer(s) 116, aided by reels 118, translate over rails 120
0403 which are connected to, or integrally formed with, casing 114.
0404 +P According to a preferred embodiment of the present invention, all of
0405 drawers 116 are securable close via a single securing member 121 (best
0406 seen in FIG. 7), which engages securing elements 122 attached to a <<<<
>>>>the aft

0407 of drawers 116 and protrudes through dedicated holes 124 formed in casing
0408 114 (FIG. 6).

0409 +P Preferably, single securing member 121 is attached to or forms a part
0410 of handle 56, such that when handle 56 is retracted securing member 121
0411 simultaneously secures all of drawers 116 closed.

0412 +P It is common for toolbox drawers to have locks on their front side.
0413 Due to handle 56 of assembly 50 it is possible to have the drawers
0414 secured/locked from behind.

0415 +P In any case, drawers 116 are preferably supplemented with opening
0416 handles 123. Handles 123 are preferably also designed to secure/lock
0417 drawers 116 to casing 114 when closed.

0418 +P A common problem associated with cabinets and drawers of any
0419 construction is that the drawers have to remain to a significant <<<<
>>>>percentage

0420 within the casing of the product even in the extended position to avoid
0421 falling out. The drawers assembly described herein is notable for having

0422 +pg, 20

0423 cabinet rollers appended beyond the extremity of the product. This <<<<
>>>>feature

0424 allows the drawers to be pulled out further than would otherwise be
0425 possible.

0426 +P According to a preferred embodiment of the present invention base
0427 cabinet 52 of rolling containers assembly 50 includes a casing 126 to <<<<
>>>>which

0428 handle 56 and wheels 54 are engaged. Base cabinet 52 further includes a
0429 flipping bin 128. Casing 126 is formed with a housing 127 for holding
0430 handle 56 when extended and for accepting handle 56 when retracted.

0431 Thus, handle 56 is retractable into, and extendible from, housing 127.

0432 +P Casing 126 is formed having a base element 129. Base 129 is

0433 designed to be in contact with the floor when assembly 50 is <<<<
>>>>positioned in

0434 its upright position. Wheels 54 are designed to have substantially no or
0435 minimal contact with the floor when in the upright position. Wheels 54
0436 take firm contact with the floor only when assembly 50 is in its <<<<
>>>>locomoting

0437 position, as shown, for example, in FIG. 24.

0438 +P Flipping bin 128 is rotatable with respect to casing 126 and has an

0439 upper opening 130. Casing 126 is preferably formed with an upper rim

0440 132. Rim 132 is supplemented with anchor holes 134 which serve for

0441 attaching strings 136 (shown in FIG. 24) for effecting carriage of <<<<

>>>>desired

0442 items on top of base cabinet 52 when additional cabinet(s) 58 are <<<<

>>>>removed.

0443 +P Handle 52 is preferably formed with additional holes 138 which

0444 further serve for attaching strings 136 for effecting the carriage of <<<<

>>>bigger

0445 items on top of base cabinet 52.

33 of 44

0446 +pg, 21

0447 +P Thus, the anchor holes situated fore and aft at the top of the base
0448 cabinet allow the base cabinet and the handle to be used as a <<<<
>>>>separate dolly.

0449 This is particularly useful when additional materials have to be <<<<
>>>>carried to

0450 the working site.

0451 +P According to a preferred embodiment of the present invention reel 64
0452 is a revolving electrical reel rotatably attached to casing 126, within a
0453 dedicated recession 140 formed therein, such that reel 64 would not
0454 protrude from the general outline of base cabinet 52.

0455 +P According to a preferred embodiment of the present invention reel 64
0456 is removable (disconnectable/detachable) from casing 126, and may
0457 function as a standalone reel.

0458 +P As specifically shown in FIG. 25, according to a preferred
0459 embodiment of the present invention casing 126 is supplemented with at
0460 least two elastic bands 142, designed for engaging desired long items 144
0461 (e.g., a saw) along a side 146 thereof.

0462 +P According to another preferred embodiment of the present invention
0463 flipping bin 128 is rotatably connected to casing 126 via a hinge, <<<<
>>>>marked by

0464 a broken line 146 in FIG. 7, located such that bin 128 opens when reaches
0465 beyond a center of gravity point and closes when is before the center of
0466 gravity point, such that bin 128 fully opens or closes when used. This
0467 feature of bin 128 is effective also when load is loaded therein. <<<<

>>>>Therefore,

0468 when used, bin 128 remains open irrespective of its content load.

0469 Conversely bin 128 remains closed even when not locked in the

0470 +pg, 22

0471 transportable situation of assembly 50, shown, for example in FIG. 24.

0472 +P However, according to a preferred embodiment of the invention bin
0473 128 is equipped with a front lock 148, which locks bin 128 to casing 126.

0474 +P Handle 56 is deployed on the back side of base cabinet 52 and is
0475 selected conventional in its design, as seen, for example, in rolling <<<<
>>>>luggage

0476 pieces, e.g., by SAMSONITE. However, such handles have so far not been
0477 employed as described herein.

0478 +P According to a preferred embodiment of the present invention,
0479 handle 56 is completely detachable from assembly 50 to allow for
0480 separation of the components thereof for storage or transportation in
0481 confined spaces i.e., closets or car trunks.

0482 +P Handle 56 is attached/detached from base cabinet 52 via a flexing
0483 member 150. Flexing members are well known in the art of plastics and
0484 require no further description herein.

0485 +P Reel 64 is functionally notable for the following features. First, as
0486 already mentioned hereinabove, it is removable from casing 126 and may
0487 serve as a separate standalone reel, functioning independently of <<<<
>>>>assembly

0488 50. Reel 64 is locked onto its location (recession 140) on casing 126 <<<<
>>>>by a

0489 quarter turn locking mechanism as further detailed hereinbelow.

0490 +P Current reels for electric cables or other purposes (e.g., garden/pool
0491 hoses) share a common construction i.e., a reel comprised of a hollow <<<<
>>>>core

0492 and round flanges rotating about an axle. Such reels are typically <<<<
>>>>appended

0493 with legs arrangement or a handle to improve functionality.

0494 +pg, 23

0495 +P Reel 64 according to the present invention appears traditional by
0496 intent, but its functionality is quite different from the current art:

0497 +P As best seen in FIGS. 10 and 11 reel 64 includes a front round
0498 flange 152 which is affixed to a core 154 which revolves. Reel 64 further
0499 includes a back flange 156 which is affixed to yet another core 158 which
0500 does not revolve. Core 154 rotatably fits inside core 158. Core 158
0501 therefore acts as an axle for core 154 and flange 152 to revolve on.
0502 Functionality of such an arrangement would be significantly impaired

0503 without a revolving back flange to carry the weight of the cord and <<<<
>>>>prevent

0504 friction. To this end, front flange 152 and core 154 carry several <<<<
>>>>(e.g., three

0505 or more) paddles 160 deployed at the rear end of core 154.

0506 +P When assembled paddles 160 lay against static back flange 156,
0507 rotating thereon. Paddles 160 effectively carry the weight of the cord
0508 preventing spread and allowing the otherwise revolving rear flange to <<<<
>>>>act as

0509 a static mounting point.

0510 +P As best seen in FIGS. 26+i a+l ^14 +i b +l two protrusions 164 <<<<
>>>>formed in

0511 recession 140 of casing 126 are camming into corresponding holes 162

0512 formed in backplate 156, serving to lock/unlock plate 156 to assembly <<<<
>>>>50 by

0513 a quarter of a turn.

0514 +P Back plate 156 is supplemented with a lever 166. Lever 166 is
0515 positioned such that when plate 156 is in its locked position, lever <<<<
>>>>is pulled

0516 over a dedicated protrusion 167 (best seen in FIG. 2), formed in casing

0517 126, thereby securing reel 64 in its locked position, such that <<<<
>>>> inadvertent

0518 +pg, 24

0519 disconnection of reel 64 from base cabinet 52 becomes practically
0520 impossible.

0521 +P Reel 64 is preferably further supplemented with a revolving handle
0522 170 asymmetrically attached to front plate 152 for releasing a cord <<<<
>>>>engaged

0523 thereon.

0524 +P FIGS. 27¹⁴ 31 show another embodiment of the rolling containers
0525 assembly according to the present invention, which is referred to
0526 hereinbelow as assembly 200.

0527 +P Like assembly 50, assembly 200 includes a base cabinet 202 which
0528 is supplemented with wheels 204 for locomoting rolling containers
0529 assembly 200.

0530 +P Assembly 200 further includes at least one additional cabinet or <<<<
>>>>removable

0531 container (these terms being used interchangeably) 206 which is removably
0532 connectable (by snapping) on top 208 of base cabinet 202.

0533 +P Additional cabinet 206 includes a pulling handle 210 for effecting <<<<
>>>>locomotion.

0534 The pulling handle 210 has a hand grip portion 211.

0535 +P According to a preferred embodiment, additional cabinet 206 is a <<<<
>>>>clamshell

0536 style case or toolbox 212 and/or a carousel organizer 214. Figure 32 <<<<
>>>>illustrates the

0537 removable container 206 as only the clamshell tool case 212.

0538 +P Carousel organizer 214 includes a revolving drawer 215 which <<<<
>>>>rotates radially

0539 about a fixed point and therefore allows for more complete access of <<<<
>>>>contents than a

0540 conventional drawer, which is required to remain partially in the <<<<
>>>>container.

0541 +P In Figures 27, 28, 29 and 31, the at least one cabinet 206 <<<<
>>>>includes both the

0542 +pg,25

0543 clamshell style case or toolbox 212 and the carousel organizer 214, <<<<
>>>>with the at least

0544 one cabinet 206 being secured to the base cabinet 202 by a latch or <<<<
>>>>latch assembly

0545 230 as shown. The tool case 212 is secured to the organizer 214 in <<<<
>>>>any manner, for

0546 example, by a frictional fit as shown.

0547 +P As further shown in the drawings, the toolbox or case 212 inclues <<<<
>>>>a container

0548 portion 232 that has an upwardly facing opening (see Figure 31) and <<<<
>>>>defines an

0549 interior space in which articles can be stored and transported. Also <<<<
>>>>shown in

0550 Figures 27, 28, 29, 31 and 32 is a lid portion 234 pivotally <<<<
>>>>connected to container

0551 portion 232, and which is arranged to cover the upwardly facing <<<<
>>>>opening of container

0552 portion 232. The lid portion 234 can be latched to container portion <<<<
>>>>232 by a pair of

0553 latches 236. A carrying handle 238 is pivotally attached to the lid <<<<
>>>>portion 234 in

0554 conventional fashion and is manually graspable to enable carriage of <<<<
>>>>the at least

0555 one removable container 206 separately from the base container 202.

0556 +P As seen best in FIG. 31, the toolbox 212 contains a conventional <<<<
>>>>tool tray 238

0557 as known in the art. Similarly, another tool tray 238 may be provided <<<<
>>>>to sit within the

0558. base cabinet 202 as shown. As also shown, the base cabinet 202 has four <<<<
0559 substantially vertical walls 242 defining an upwardly facing opening <<<<
>>>>to the base
0560 cabinet 202. The at least one additional cabinet 206 is secured above <<<<
>>>>the opening
0561 of the base cabinet 202 as shown in the Figures.
0562 +P It can be appreciated that the container portion 232 has its <<<<
>>>>upwardly facing
0563 opening disposed in such upwardly facing orientation when the device <<<<
>>>>200 is in its
0564 substantially upright position, as illustrated in Figures 27¹⁴ 29, <<<<
>>>>31 and 32, thus
0565 permitting tools to be placed downwardly into such upwardly facing <<<<
>>>>opening when
0566 the lid 234 is opened. In the closed position, the major portion of <<<<
>>>>lid 234 is
0567 substantially horizontally disposed in covering relation to the <<<<
>>>>opening of container
0568 portion 232.
0569 +P According to a preferred embodiment base cabinet 202 includes <<<<
>>>>accessories
0570 218, anchor points 220. Accessories 218 may be of any type. Accessorie<<<<
>>>>s 218
0571 anchor points 220 serve as a custom attachment feature present on <<<<
>>>>base cabinet
0572 202 which allows various molded components with different functional<<<<
>>>>ty to be
0573 attached thereon to tune the product for specific purposes (e.g., <<<<
>>>>fishing, gardening,
0574 etc.). In the embodiments shown, the accessory 218 has a relatively <<<<

>>>>narrow portion

0575 adjacent to the base container and a relatively wider portion <<<<

>>>>extending vertically in

0576 spaced relation from the base container. This can be used, for <<<<

>>>>example, to wrap an

0577 extension cord therearound. Other features of assembly 200 are <<<<

>>>>similar to those

0578 described hereinabove with respect to assembly 50.

0579 +P According to a preferred embodiment of the invention all of the

0580 components of the rolling containers assembly are injected plastic

0581 components.

0582 +P Thus, the present invention relates to improvements to toolboxes for

0583 industrial and home/hobby applications.

0584 +P The rolling containers assembly according to the present invention is

0585 the first modular rolling workshop having a retractable/extendible handle

0586 system.

0587 +P Breaking the assembly into three vertically modular components

0588 provides several functional advantages.

0589 +P First, the total weight is dividable for purposes of lifting the

0590 assembly over steps, into car trunks, etc.

0591 +P Second, the vertical configuration is ergonomically practical when

0592 accessing the assembly's interior.

0593 +pg, 26

0594 +P Third, when disassembled the assembly according to the present
0595 invention is storable in small confinements, such as the trunk of an <<<<
>>>>average

0596 sedan.

0597 +P Finally, the modular vertical nature of the rolling containers
0598 assembly according to the present invention allows a user to take +37 <<<<
>>>>as much

0599 as he needs+38 .

0600 +P Thus, for small jobs the toolcase or the toolcase and the drawers
0601 assembly can be deployed with the traditional side claw latches.

0602 +P In any case, when the toolcase and drawers assembly are removed
0603 the remaining base cabinet and back handle transform into a dolly for
0604 additional load carrying.

0605 +P Although the invention has been described in conjunction with
0606 specific embodiments thereof, it is evident that many alternatives,
0607 modifications and variations will be apparent to those skilled in the <<<<
>>>>art.

0608 Accordingly, it is intended to embrace all such alternatives, <<<<

>>>>modifications

0609 and variations that fall within the spirit and broad scope of the <<<<

>>>>appended

0610 claims.

0611 +pg, 27

0612 +cm What is claimed is:

0613 +cm 1. An apparatus for transporting articles between working locations,
0614 comprising:

0615 +p1 a base container having an interior space in which articles to be
0616 transported can be stored,

0617 +p1 one or more rotatable ground engaging wheels mounted to the

0618 apparatus toward the bottom of said apparatus for rotation about an <<<<
>>>>axis to provide

0619 rolling support for said apparatus;

0620 +p1 at least one removable container having (i) a container portion <<<<
>>>>with an

0621 interior space in which articles to be transported can be stored, <<<<
>>>>(ii) a lid pivotally

0622 connected to said container portion; (iii) a latch arrangement <<<<
>>>>constructed to secure

0623 said lid in covering relation with respect to said container portion, <<<<
>>>>and (iv) a carrying

0624 handle attached to said lid and that is manually graspable to enable <<<<
>>>>carriage of said

0625 removable container;

0626 +p1 said at least one removable container being removably secured above

0627 said base container when said apparatus is at a working location to <<<<
>>>>enable said at

0628 least one container to be removed from secured relation above said <<<<
>>>>base container

0629 and separately carried by said carrying handle at said working <<<<
>>>>location; and

0630 +p1 a manually engageable pulling handle having a hand grip portion, said

0631 pulling handle and said one or more ground engaging wheels being <<<<
>>>>arranged to

0632 +pg, 28

0633 enable a user to manually grasp said hand grip portion and pull said <<<<
>>>>pulling handle

0634 generally rearwardly so as to tilt said apparatus rearwardly to a <<<<
>>>>tilted rolling

0635 movement position, thereby enabling the user to roll said apparatus <<<<
>>>>to a desired

0636 location by pushing or pulling said pulling handle in a desired <<<<
>>>>direction;

0637 +p1 said at least one removable container being secured above said base

0638 container so as to be retained in secured relation above said base <<<<
>>>>container while

0639 said apparatus is in said tilted rolling movement position;

0640 +p1 said container portion having a generally upwardly facing opening

0641 when said apparatus is standing at said working location and said at <<<<
>>>>least one

0642 removable container is secured above said base container;

0643 +p1 said lid being pivotable, when said apparatus is disposed at said

0644 working location and said at least one removable container is secured <<<<
>>>>above said

0645 base container, between (i) a closed position wherein said lid is in <<<<
>>>>covering relation

0646 with said upwardly facing opening of said container portion and (ii) <<<<
>>>>an open position

0647 permitting access to the interior space of said container portion.

0648 +cm 2. An apparatus according to claim 1, wherein the removable container

0649 is removably secured above said base container by a latch assembly.

0650 +cm 3. An apparatus according to claim 2, wherein said latch assembly

0651 comprises a pair of latches connected on opposing sides of said base <<<<

0652 secured <<<<

>>>>container,

0652 said latches being movable between latched positions wherein said <<<<

>>>>latches engage

0653 +pg, 29

0654 the removable container to secure said removable container above said <<<<
>>>>base

0655 container and unlatched positions out of engagement with the <<<<
>>>>removable container

0656 to release said removable container.

0657 +cm 4. An apparatus according to claim 3, wherein said latches engage the
0658 removable container in a snapping relation in the latched positions <<<<
>>>>thereof.

0659 +cm 5. An apparatus according to claim 3, wherein each of said latches
0660 engage within respective recesses formed in opposite sides of said at <<<<
>>>>least one

0661 removable container in said latched positions thereof.

0662 +cm 6. An apparatus according to claim 4, wherein said base container
0663 provides a bottom surface for engaging the ground to support said <<<<
>>>>apparatus when

0664 said apparatus is standing at a desired location.

0665 +cm 7. An apparatus for transporting articles between working locations
0666 comprising:

0667 +p1 a base container having an interior space in which articles to be
0668 transported can be stored;

0669 +p1 one or more ground engaging wheels mounted to the apparatus
0670 toward the bottom of said apparatus for rotation about an axis to <<<<

>>>>enable said

0671 apparatus to be rollingly transported;

0672 +p1 a toolbox having (i) a container portion with an interior space <<<<
>>>>in which

0673 articles to be transported can be stored, said container portion <<<<

>>>>having a generally

0674 +pg, 30

0675 upwardly facing opening, (ii) a lid pivotally mount^{ed} to an upper <<<<
>>>>rearward portion of

0676 said container portion, said lid being pivotable between an open <<<<
>>>>position permitting

0677 access into said container portion through said generally upwardly <<<<
>>>>facing opening

0678 thereof and a closed position preventing access into said container <<<<
>>>>portion through

0679 said generally upwardly facing opening thereof, (iii) a latch on a <<<<
>>>>front side of said

0680 toolbox, said latch being capable of releasably latching said lid in <<<<
>>>>said closed

0681 position thereof and (iv) a carrying handle mounted to said lid and <<<<
>>>>manually

0682 graspable to enable carriage of said toolbox;

0683 +p1 said toolbox being removably secured above said base container when

0684 said apparatus is at a working location to enable said toolbox to be <<<<
>>>>removed from

0685 secured relation above said base container and separately carried by <<<<
>>>>said carrying

0686 handle at said working location; and

0687 +p1 a manually engageable pulling handle having a hand grip portion, said

0688 pulling handle being movable between a storage position and a <<<<
>>>>deployed position,

0689 said pulling handle extending upwardly from one side of said <<<<
>>>>apparatus when in said

0690 deployed position, said one or more ground engaging wheels being <<<<
>>>>arranged on

0691 said apparatus to enable a user to manually grasp said hand grip <<<<
>>>>portion and pull

0692 said pulling handle in said deployed position thereof generally <<<<
>>>>rearwardly so as to tilt

0693 said apparatus rearwardly to a tilted rolling movement position, <<<<
>>>>thereby enabling the

0694 user to roll said apparatus to a desired location by pushing or <<<<
>>>>pulling said pulling

0695 +pg, 31

0696 handle in a desired direction,

0697 +p1 said toolbox being secured above said base

0698 container so as to be retained in secured relation above said base <<<<

>>>>container while

0699 said apparatus is in said tilted rolling movement position;

0700 +p1 said container portion having a generally upwardly facing opening

0701 when said apparatus is standing at said working location and said <<<<

>>>>toolbox is secured

0702 above said base container;

0703 +p1 said lid being pivotable, when said apparatus is at said working <<<<

>>>>location

0704 and said toolbox is secured above said base container, between (i) a <<<<

>>>>closed position

0705 wherein said lid is in covering relation with said upwardly facing <<<<

>>>>opening of said

0706 container portion and (ii) an open position wherein said lid is <<<<

>>>>removed from said

0707 covering relation.

0708 +cm 8. An apparatus according to claim 7, wherein the removable container

0709 is removably secured above said base container by a latch assembly <<<<

>>>>comprising a

0710 pair of latches on opposing lateral sides of said apparatus securing <<<<

>>>>said toolbox

0711 above said base container and being releasable to enable removal of <<<<

>>>>said toolbox

0712 by said carrying handle.

0713 +cm 9. An apparatus according to claim 7, wherein said base container

0714 provides a bottom surface for engaging the ground to support said <<<<

>>>>apparatus when

0715 said apparatus is standing at a desired location.

0715 0715 0715

0715 0715 0715

>>>>apparatus when

0715 said apparatus is standing at a desired location.

0716 +pg, 32

0717 +cm 10. An apparatus for transporting articles between working locations,
0718 comprising:

0719 +p1 a base container having an interior space in which articles to be
0720 transported can be stored, said base container including four <<<<
>>>>generally vertical walls

0721 defining an upwardly facing opening;

0722 +p1 one or more ground engaging wheels mounted to the apparatus

0723 toward the bottom of said apparatus for rotation about an axis to <<<<
>>>>enable said

0724 apparatus to be rollingly transported;

0725 +p1 a toolbox having (i) a container portion with an interior space <<<<
>>>>in which

0726 articles to be transported can be stored, said container portion <<<<
>>>>having a generally

0727 upwardly facing opening, (ii) a lid pivotally mounted to an upper <<<<
>>>>rearward portion of

0728 said container portion, said lid being pivotable between an open <<<<
>>>>position permitting

0729 access into said container portion through said generally upwardly <<<<
>>>>facing opening

0730 thereof and a closed position preventing access into container <<<<
>>>>portion through said

0731 generally upwardly facing opening thereof, (iii) a latch on a front <<<<
>>>>side of said toolbox,

0732 said latches releasably latching said lid in said closed position <<<<
>>>>thereof and (iv) a

0733 carrying handle mounted to said lid and being manually graspable to <<<<
>>>>enable carriage

0734 of said toolbox;

0735 +p1 said toolbox being removably secured above the upwardly facing

0736 opening of said base container when said apparatus is at a working <<<<

>>>>location to

0737 +pg, 33

0738 enable said toolbox to be removed from above said upwardly facing <<<<
>>>>opening of base

0739 container and separately carried by said carrying handle at said <<<<
>>>>working location;

0740 +p1 a manually engageable pulling handle connected to said apparatus
0741 and arranged to enable a user to manually grasp and pull said pulling <<<<
>>>>handle

0742 generally rearwardly so as to tilt said apparatus rearwardly to a <<<<
>>>>tilted rolling

0743 movement position, thereby enabling the user to roll said apparatus <<<<
>>>>to a desired

0744 location by pushing or pulling said pulling handle in a desired <<<<
>>>>direction, and

0745 +p1 said container portion having a generally upwardly facing opening
0746 when said apparatus is standing at the working location and said <<<<
>>>>toolbox is secured

0747 above said base container;

0748 +p1 said tool Box being secured above said base

0749 container so as to be retained in secured relation above said base <<<<
>>>>container while

0750 said apparatus is in said tilted rolling movement position;

0751 +p1 said lid being pivotable, when said apparatus is at the working <<<<
>>>>location

0752 and said toolbox is secured above said base container, between (i) a <<<<
>>>>closed position

0753 wherein said lid is in covering relation with said upwardly facing <<<<
>>>>opening of said

0754 container portion and (ii) an open position permitting access to the <<<<

>>>>interior space of

0755 said container portion.

0756 +cm 11. An apparatus according to claim 1, wherein the removable <<<<

>>>>container

0757 is removably secured above said base container by a latch assembly <<<<

>>>>comprising a

0758 +pg, 34

0759 pair of latches on opposing lateral sides of said apparatus securing <<<<
>>>>said toolbox

0760 above said base container and being releasable to enable removal of <<<<
>>>>said toolbox

0761 by said carrying handle.

0762 +cm 12. An apparatus according to claim 10, wherein said base container
0763 provides a bottom surface for engaging the ground to support said <<<<
>>>>apparatus when

0764 said apparatus is standing at a desired location.

0765 +cm 13. An apparatus for transporting articles between working locations,
0766 comprising:

0767 +p1 a base container having an interior space in which articles to be
0768 transported can be stored;

0769 +p1 one or more ground engaging wheels mounted on the apparatus

0770 toward the bottom of said apparatus for rotation about an axis to <<<<

>>>>enable said

0771 apparatus to be rollingly transported;

0772 +p1 one or more removable container removably mounted in a stacked

0773 relation directly atop said base container, said one or more <<<<

>>>>removable container

0774 comprising a toolbox having (i) a container portion with an interior <<<<

>>>>space in which

0775 articles to be transported can be stored, said container portion <<<<

>>>>having a generally

0776 upwardly facing opening, (ii) a lid pivotally mounted to said <<<<

>>>>container portion, said lid

0777 being pivotable between an open position permitting access into said <<<<

>>>>container

0778 portion through said generally upwardly facing opening thereof and a <<<<
>>>>closed position

0779 +pg,35

0780 preventing access into said container portion through said generally <<<<
>>>>upwardly facing

0781 opening thereof, and (iii) a carrying handle mounted on said lid and <<<<
>>>>enabling

0782 carriage of said toolbox;

0783 +p1 said toolbox being removably mountable in a stacked relation directly

0784 atop of said base container when said apparatus is at a working <<<<
>>>>location to enable

0785 said toolbox to be removed from atop of said base container and <<<<
>>>>separately carried

0786 by said carrying handle at said working location; and

0787 +p1 a manually engageable pulling handle having a hand grip portion, said

0788 pulling handle and said one or more ground engaging wheels being <<<<

>>>>arranged to

0789 enable a user to manually grasp said hand grip portion and pull said <<<<
>>>>pulling handle

0790 generally rearwardly so as to tilt said apparatus rearwardly to a <<<<
>>>>tilted rolling

0791 movement position, thereby enabling the user to roll said apparatus <<<<
>>>>to a desired

0792 location by pushing or pulling said pulling handle in a desired <<<<
>>>>direction, wherein said

0793 pulling handle is connected solely to said toolbox,

0794 +p1 said container portion having a generally upwardly facing opening

0795 when said one or more removable container is standing at a working <<<<
>>>>location and

0796 said one or more removable container is mounted above said base <<<<
>>>>container;

0797 +p1 said one or more removable container being secured above said base
0798 container so as to be retained in secured relation above said base <<<<
>>>>container while

0799 +pg, 36

0800 said apparatus is in said tilted rolling movement position;

0801 +p1 said lid being pivotable when said apparatus is at a working location

0802 and said one or more removable container is mounted above said base <<<<
>>>>container,

0803 between (i) a closed position wherein said lid is in covering <<<<
>>>>relation with said

0804 upwardly facing opening of said container portion and (ii) an open <<<<
>>>>position wherein

0805 said lid is removed from said covering relation.

0806 +cm 14. An apparatus according to claim 13, wherein said base container

0807 provides a ground engaging surface for supporting said apparatus when <<<<
>>>>said

0808 apparatus is standing at a desired location.

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